## North

Hobson Road Dairy Barn Corrals MW3 MW1 MW2 Corrais MW4 Baker Road Lagoon 64 acres 21 acres

DeGroot Dairy DP-164

1997 MW-3 Location Map

#### RECORD OF GROUND WATER AND WASTE **QUALITY ANALYSES**

RECEIVED

NOV 24 1997

**DP-164** 

Tested for:

Entered 12/10/97 Cly

**Degroot Dairy** 

3819 East Hobson Road

Roswell, NM 88201

**Date of Testing:** 

October 20, 1997

Location:

Approximately 6 miles southeast of Roswell at

3918 East Hobson Road, Roswell, NM

Time of Sampling:

3:00 pm

Tests Performed by:

J&J Testing 505-622-4035

RR2-3661 East Brasher Road

Roswell, NM 88201

Date of Analysis:

October 23, 24, 27 and 28

Analysis Performed by:

City of Roswell Water Laboratory

Gary Beatty, City Chemist

P.O. Drawer 1838

505-624-6752

Roswell, NM 88201

Analytical Technique or Method:

Monitoring Wells - Grab Sample with Baler

Lagoon - Grab Sample

Results:	MW#1	MW#2	MW#3	MW#4	Lagoon
Depth to Groundwater	20'	32'	27'	35'	
Chlorides (CI) mg/L	136	216	210	145	
Dissolved Solids Evap. mg/L	2430	3380	3300	2790	1550
Nitrates (NO3-N) mg/L	21.4	32.1	33.4	21.6	<0.03
TKN-N mg/L	<0.3	1.0	0.3	<0.3	170

Date samples taken to Lab: Date results received from Lab: Date results sent to NMED: Certified Mail Receipt Number:

October 21, 1997 November 1, 1997 November 10,1997 P 056 034 042

Attachments:

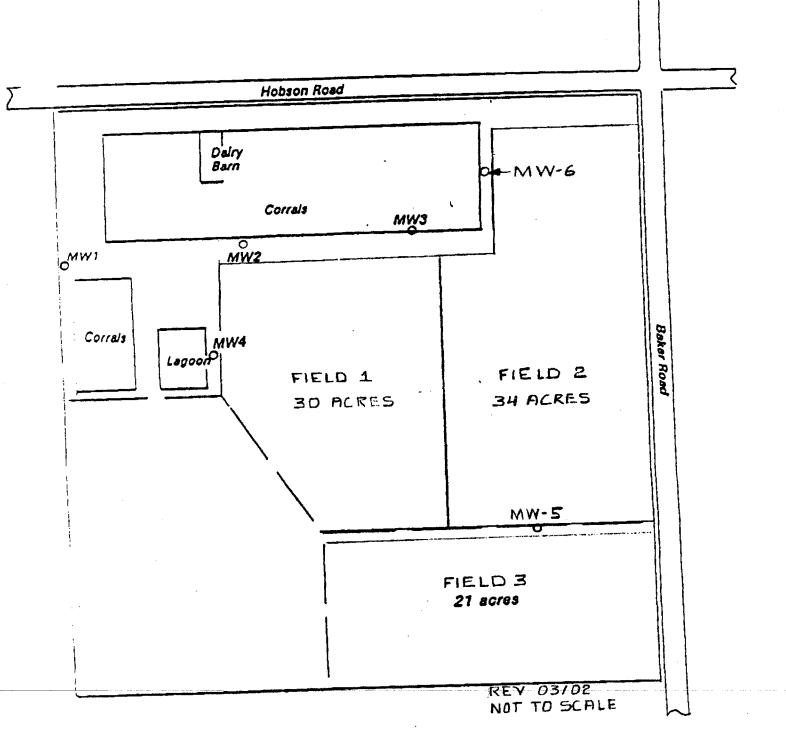
**Laboratory Results** 

**Land Application Data Sheet** Map - Location of Monitoring Wells

# Southern Skies Dairy DP-164

## LADS MAP

North



BARRON'S ENGINEERING SOLUTIONS - IN TIME!

11 Cajun Court • Roswell, NM 88201 • 505.622.7224 • Fax 505.622.7019 • best9@dfn.com

July 4, 2002

Clint Marshall New Mexico Environment Department Groundwater Pollution Prevention Section 1190 St. Francis Drive Santa Fe, NM 87502 RECEIVED

JUL 11 8 2007

RE:

Southern Skies Dairy, DP-164: Quarterly Discharge Monitoring Report, Reporting

Period March 2002 - May 2002

Dear Mr. Marshall:

Attached is the discharge monitoring report for the reporting months of March 2002 through May 2002. This report is delayed from its June 30, 2002 due date due to a laboratory error in analysis of Total Kjeldahl Nitrogen (TKN) concentration in the Retention Lagoon.

During this reporting period, two monitoring wells (MW), MW-2 and MW-3, were plugged and abandoned with your authorization on February 2002. A new MW, MW-6, was installed in the area you designated in March 2002. The attached Land Application Data Sheet (LADS) map shows the locations of all MWs. Results of sampling are shown on the attached *Groundwater Discharge Permit DP-164 Sampling*.

Our suspicions that the Badger meter was showing incorrect effluent flow rates from the Barn to the Retention Lagoon was confirmed by Jim Peterson, an engineer with the Badger Company, during Mr. Peterson's visit on April 30, 2002. The problem was the factor used to calibrate the Badger Meter. Mr. Peterson and Mike Visser, the owner of Southern Skies Dairy, have worked together since April 30 to correct the calibration factor. The problem with the Badger meter was resolved in mid-June 2002, and this meter's reading will be used during the next reporting period.

In the interim, the readings from the sprinkler wash meter have been used as a test carried out in March 2002 by Mr. Visser indicated that these readings more accurately reflected the effluent flow rate from the Barn to the Retention Lagoon. These flow rates, along with the Farmer's statement of allocation among the three crop fields, have been used during this reporting period to determine nitrogen application on the fields. The attachment entitled *Nutrient Management* shows how each monthly amount was allocated to the three crop fields. These amounts are reflected on the LADS.

If you have any questions, please contact me at 505-622-7224.

Yours truly,

Mary F. Barron

President

Attachments

cc: Mike Visser, Southern Skies Dairy

Date: 16-Nov-09

CLIENT:

Estes Sampling Service

Lab Order:

0911071

Project:

Southern Skies Dairy

Lab ID:

0911071-01

Client Sample ID: MW-1

Collection Date: 11/3/2009 10:46:00 AM

Date Received: 11/4/2009

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Date Analyzeu
Chloride	400					Analyst: TAF
Nitrogen, Nitrate (As N)	130	1.0	•	mg/L	10	11/5/2009 12:06:49 AM
And Sell' Harrate (48 14)	32	1.0	ŀ	mg/L	10	11/5/2009 12:06:49 AM
SM2540C MOD: TOTAL DISSOLVED	SOLIDS					
Total Dissolved Solids	2020	40.0				Analyst: MMS
	2020	40.0	ſ	ng/L	1	11/9/2009 1:17:00 PM
SM 4500 NORG C: TKN			•			
Nitrogen, Kjeldahl, Total	ND					Analyst: KS
······································	עא	5.0	n	ng/L	1	11/6/2009 1:56:00 PM

DP-164

Recent Ground Water Data Most Recent Sampling Events For All MWs

Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Date: 28-Aug-09

**CLIENT:** 

**Estes Sampling Service** 

Lab Order:

0908307

Project:

Southern Skies

Lab ID:

0908307-01

Client Sample ID: MW-1

Collection Date: 8/18/2009 12:41:00 PM

Date Received: 8/19/2009

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS	· · · · · · · · · · · · · · · · · · ·		·	-	Analyst: TAF
Chloride	110	2.0	mg/L	20	8/19/2009 1:12:35 PM
Nitrogen, Nitrate (As N)	29	2.0	mg/L	20	8/19/2009 1:12:35 PM
SM2540C MOD: TOTAL DISSOLVEI	SOLIDS				Analyst: MMS
Total Dissolved Solids	2010	20.0	mg/L	1	8/19/2009
SM 4500 NORG C: TKN					Analyst: LJB
Nitrogen, Kjeldahl, Total	ND	5.0	mg/L	1	8/20/2009

Qualiliers:	*	Value exceeds Maximum Contaminant Level
	E	Estimated value
	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit
	\$	Spike recovery outside accepted recovery limits

MCL Maximum Contaminant Level

RL Reporting Limit

Page 1 of 7

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded

Date: 29-May-09

CLIENT:

Estes Sampling Service

Lab Order:

0905426

Project:

Southern Skies Dairy

Lab ID:

0905426-01

Client Sample ID: MW-1

Collection Date: 5/21/2009 10:35:00 AM

Date Received: 5/22/2009

Matrix: AQUEOUS

Lau IV.	Result	POL O	ual Units	DF	Date Analyzed
Analyses	Vesuit	. 4- 4			Analyst: TAF
EPA METHOD 300.0: ANIONS		4.0	mall	10	5/22/2009 2:30:43 PM
Chloride	120	1.0	mg/L .		5/22/2009 2:30:43 PM
Nitrogen, Nitrate (As N)	29	1.0	mg/L	. 10	9/22/2009 2:00:40 : 14:
	001100				Analyst: KMS
SM2540C MOD: TOTAL DISSOLVED	) 20ring		mg/L	1	5/26/2009
Total Dissolved Solids	1800-	200	Hig/L	•	
•					Analyst: KMS
SM 4500 NORG C: TKN				1	5/28/2009
Nitrogen, Kjeldahl, Total	ND	5.0	mg/L	'	

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 1 of 6

Date: 09-Mar-09

CLIENT:

Estes Sampling Service

Lab Order:

0902213

Project:

Southern Skies Dairy

Lab ID:

0902213-01

Client Sample ID: MW-1

Collection Date: 2/19/2009 10:38:00 AM.

Date Received: 2/20/2009

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS	·		······································		Analyst: RAGS
Chloride	100	1.0	mg/L	10	2/20/2009 4:42:36 PM
Nitrogen, Nitrate (As N)	26	1.0	mg/L	10	2/20/2009 4:42:36 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS					Analyst: JMP
Total Dissolved Sollds	1800	100	mg/L	. 1	2/24/2009
SM 4500 NORG C: TKN					Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0	mg/L	1	2/24/2009

Ωn	alii	ier:	1

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 16-Nov-09

CLIENT:

Estes Sampling Service

Lab Order:

0911071

Project:

Southern Skies Dairy

Lab ID:

0911071-02

Client Sample ID: MW-4

Collection Date: 11/3/2009 12:02:00 PM

Date Received: 11/4/2009

Matrix: AQUEOUS

	Result	POL O	ual Units	DF	Date Analyzed
Analyses	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Analyst: TAF
EPA METHOD 300.0: ANIONS	400	1.0	mg/L	10	11/5/2009 12:24:13 AM
Chloride	130	1.0	mg/L	10	11/5/2009 12:24:13 AM
Nitrogen, Nitrate (As N)	- 38	1.0	IHA.F		•
•				• -	Analyst: MMS
SM2540C MOD: TOTAL DISSOLVED	SOLIDS	40.0	mg/L	1	11/9/2009 1:17:00 PM
Total Dissolved Solids	2580	40.0	mg/∟	•	• • • • • • • • • • • • • • • • • • • •
•					Analyst: KS
SM 4500 NORG C: TKN	_			4	11/6/2009 1:56:00 PM
Nitrogen, Kjeldahl, Total	ND	5.0	mg/L	•	117,

Qualifiers:

Value exceeds Maximum Contaminant Level

E Estimated value

Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank.

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 2 of 7

Date: 28-Aug-09

CLIENT:

**Estes Sampling Service** 

Lab Order:

0908307

Project:

Southern Skies

Lab ID:

0908307-02

Client Sample ID: MW-4

Collection Date: 8/18/2009 1:56:00 PM

Date Received: 8/19/2009

Matrix: AQUEOUS

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS		<del> </del>			Analyst: TAF
Chloride	120	2.0	mg/L	. 20	8/19/2009 1:47:24 PM
Nitrogen, Nitrate (As N)	36	2.0	mg/L	20	8/19/2009 1:47:24 PM
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS				Analyst: MMS
Total Dissolved Solids	2630	40.0	mg/L	1	8/19/2009
SM 4500 NORG C: TKN					Analyst: LJB

Oug	His	ere

- Value exceeds Maximum Contaminant Level
- Estimated value
- Analyte detected below quantitation limits
- Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 2 of 7

Date: 29-May-09

CLIENT:

Estes Sampling Service

Lab Order:

0905426

Southern Skies Dairy

Project: Lab ID:

0905426-02

Client Sample ID: MW-4

Collection Date: 5/21/2009 12:11:00 PM

Date Received: 5/22/2009

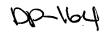
Matrix: AQUEOUS

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS	<u> </u>	······································			Analyst: TAF
Chloride	130	1,0	mg/L	10	5/22/2009 2:48:07 PM
Nitrogen, Nitrate (As N)	40	1.0	mg/L	10	5/22/2009 2:48:07 PM
SM2540C MOD: TOTAL DISSOLVEI	SOLIDS				Analyst: KMS
Total Dissolved Solids	2600	. 40	mg/L	1	5/26/2009
SM 4500 NORG C: TKN					Analyst: KMS
Nitrogen, Kieldahl, Total	· ND	5.0	mg/L	1	5/28/2009

n	uta	111	Ne	rs:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J --- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 2 of 6



Date: 09-Mar-09

CLIENT:

Estes Sampling Service

Lab Order:

0902213

Project:

Southern Skies Dairy

Lab ID:

0902213-02

Client Sample ID: MW-4

Collection Date: 2/19/2009 12:15:00 PM

Date Received: 2/20/2009

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS	· · · · · · · · · · · · · · · · · · ·					Analyst: RAGS
Chloride	130	1.0		mg/L	10	2/20/2009 5:17:24 PM
Nitrogen, Nitrate (As N)	40	1.0		mg/L	10	2/20/2009 5:17:24 PM
SM 2540 C: TOTAL DISSOLVED SC	LIDS					Analyst: <b>JMP</b>
Total Dissolved Solids	2200	100		mg/L	1 .	2/24/2009
SM 4500 NORG C: TKN			·			Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	2/24/2009

_				
Ð١	121	Ш	er:	8:

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 16-Nov-09

CLIENT:

Estes Sampling Service

Lab Order:

.0911071

Project:

Southern Skies Dairy

Lab ID:

0911071-03

Client Sample ID: MW-5a

Collection Date: 11/3/2009 11:29:00 AM

Date Received: 11/4/2009

Analyses	Result	PQL	Qual T	Units	DF	Date Analyzed
						Analyst: TAF
EPA METHOD 300.0: ANIONS	100	1.0	,	ng/L	10	11/5/2009 12:41:38 AM
Chloride				•	10	11/5/2009 12:41:38 AM
Nitrogen, Nitrate (As N)	36	1.0	r	ng/L	10	110/2000 (2.1100)
TOTAL DISCOLVE	n eni ine	•				Analyst: MMS
SM2540C MOD: TOTAL DISSOLVE	D 20F1D3	100	,	ng/L	1	11/9/2009 1:17:00 PM
Total Dissolved Solids	1480		'	Itg/c	•	• • • • • • • • • • • • • • • • • • • •
		•	;	(		Analyst: KS
SM 4500 NORG C: TKN					4	11/6/2009 1:56:00 PM
Nitrogen, Kjeldahl, Total	ND .	5.0	r	mg/L	. 1	[ ]{0/2009

Ong	Иń	ers:

Value exceeds Maximum Contaminant Level

MCL Maximum Contaminant Level

RL Reporting Lin	ш
------------------	---

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Date: 28-Aug-09

CLIENT:

Estes Sampling Service

Lab Order:

0908307

Project:

Southern Skies

Lab ID:

0908307-03

Client Sample ID: MW-5a

Collection Date: 8/18/2009 1:11:00 PM

Date Received: 8/19/2009

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: TAF
Chloride	97	2.0	mg/L	20	8/19/2009 2:57:03 PM
Nitrogen, Nitrate (As N)	35	2.0	mg/L	20	8/19/2009 2:57:03 PM
SM2540C MOD: TOTAL DISSOLVE	SOLIDS			·	Analyst: MMS
Total Dissolved Solids	1560	200	mg/L	1	8/19/2009
SM 4500 NORG C: TKN					Analyst: LJB
Nitrogen, Kjeldahl, Total	ND	5.0	mg/L	1	8/20/2009

Ou	ali	fie	701

- Value exceeds Maximum Contaminant Level
- E Estimated value
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 3 of 7

Date: 29-May-09

CLIENT:

Estes Sampling Service

Lab Order:

0905426

Project:

Southern Skies Dairy

Lab ID:

0905426-03

Client Sample ID: MW-5a

Collection Date: 5/21/2009 11:38:00 AM

Date Received: 5/22/2009

Matrix: AQUEOUS

Analyses .	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS			**************************************		Analyst: TAF
Chloride	100	1.0	mg/L	10	5/22/2009 3:05:31 PM
Nitrogen, Nitrate (As N)	36	· 1.0	mg/L	10	5/22/2009 3:05:31 PM
SM2540C MOD: TOTAL DISSOLVEI	SOLIDS				Analyst: KMS
Total Dissolved Solids	1900	200	mg/L	1	5/26/2009
SM 4500 NORG C: TKN		. ,	. •		Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	5.0	mg/L	1	5/28/2009

Ous	lif	ers	

Value exceeds Maximum Contaminant Level

RL Reporting Limit

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

Date: 09-Mar-09

CLIENT:

**Estes Sampling Service** 

Lab Order:

0902213

Project:

Southern Skies Dairy

Lab ID:

0902213-03

Client Sample ID: MW-5A

Collection Date: 2/19/2009 11:30:00 AM

Date Received: 2/20/2009

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: RAGS
Chloride	100	1.0	mg/L	10	2/20/2009 6:09:38 PM
Nitrogen, Nitrate (As N)	36	1.0	mg/L	10	2/20/2009 6:09:38 PM
SM 2540 C: TOTAL DISSOLVED SOL	.iDS				Analyst: JMP
Total Dissolved Solids	1600	100	mg/L	1	2/24/2009
SM 4500 NORG C: TKN			ē		Analyst: TAF
Nitrogen, Kjeldahl, Total	ND -	5.0	mg/L	1	2/24/2009

Oug	iifi	ers

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 16-Nov-09

CLIENT:

Estes Sampling Service

Lab Order:

0911071

Project:

Southern Skies Dairy

Lab ID:

0911071-04

Client Sample ID: MW-6

Collection Date: 11/3/2009 1:27:00 PM

Date Received: 11/4/2009

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS		<del></del>	<del></del>			Analyst: TAF
	640	5.0		mg/L	50	11/5/2009 1:51:15 AM
Chloride Nitrogen, Nitrate (As N)	36	1.0		mg/L	. 10	11/5/2009 1:33:51 AM
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS					Analyst: MMS
Total Dissolved Solids	3370	200		mg/L	1	11/9/2009 1:17:00 PM
SM 4500 NORG C: TKN						Analyst: KS
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	11/6/2009 1:56:00 PM

Oug	116	ere:

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 4 of 7

Date: 28-Aug-09

CLIENT:

Estes Sampling Service

Lab Order:

0908307

Project:

Southern Skies

Lab ID:

0908307-04

Client Sample ID: MW-6

Collection Date: 8/18/2009 1:34:00 PM

Date Received: 8/19/2009

Matrix: AQUEOUS

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
					Analyst: LJB
EPA METHOD 300.0: ANIONS	790	5.0	mg/L	50	8/21/2009 12:59:51 PM
Chloride			<u>-</u>	20	8/19/2009 3:31:53 PM
Nitrogen, Nitrate (As N)	69	2.0	mg/L	20	
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS				Analyst: MMS
Total Dissolved Solids	3690	200	mg/L	1	8/19/2009
					Analyst: LJB
SM 4500 NORG C: TKN	ND	5.0	mg/L	1	8/20/2009
Nitrogen, Kjeldahl, Total	. 140	4.0	• -		

Qual	ifiers:
Vuai	1110101

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit .
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 4 of 7

Date: 09-Mar-09

CLIENT:

Estes Sampling Service

Lab Order:

0902213

Project:

Southern Skies Dairy

Lab ID:

0902213-04

Client Sample ID: MW-6

Collection Date: 2/19/2009 11:00:00 AM

Date Received: 2/20/2009

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS			<del></del>		Analyst: RAGS
Chloride	650	2.0	mg/L	20	2/20/2009 6:44:27 PM
Nitrogen, Nitrate (As N)	29	<b>,1.0</b>	mg/L	10	2/20/2009 6:27:03 PM
SM 2540 C: TOTAL DISSOLVED SOL	IDS				Analyst: JMP
Total Dissolved Solids	3400	100 -	mg/L <sub>.</sub>	1	2/24/2009
SM 4500 NORG C: TKN				•	Analyst TAP
Nitrogen, Kjeldahl, Total	ND	5.0	mg/L		Analyst: <b>TAF</b> 2/24/2009

Qualifiers	:
------------	---

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 18-Dec-08

CLIENT:

**Estes Sampling Service** 

Lab Order:

0811456

Client Sample ID: MW-6 Collection Date: 11/25/2008 11:43:00 AM

Southern Skies Dairy

Date Received: 11/26/2008

Project: Lab ID:

0811456-03

Analyses	Result	PQL (	Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SLB
Chloride	590	2.0	mg/L	20	12/8/2008 2:47:59 PM
Nitrogen, Nitrate (As N)	28	1.0	mg/L	10	11/26/2008 5:44:01 PM
SM 2540C: TDS					Analyst: KMB
Total Dissolved Solids	2900	20	mg/L	1	12/2/2008
SM 4500 NORG C: TKN		•			Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	5.0	mg/L	1	12/3/2008

Quali	tiers:
-------	--------

Value exceeds Maximum Contaminant Level

Estimated value E

Analyte detected below quantitation limits

Not Detected at the Reporting Limit ND

Spike recovery outside accepted recovery limits

Analyte detected in the associated Method Blank В

Н Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Date: 16-Nov-09

CLIENT:

Estes Sampling Service

Lab Order:

0911071

Project:

Southern Skies Dairy

Lab ID:

0911071-05

Client Sample ID: MW-7

Collection Date: 11/3/2009 12:36:00 PM

Date Received: 11/4/2009

Matrix: AQUEOUS

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
	<del> </del>				Analyst: TAF
EPA METHOD 300.0: ANIONS	190	2.0	mg/L	20	11/5/2009 8:05:37 PM
Chloride	61	1.0	mg/L	10	11/5/2009 2:08:39 AM
Nitrogen, Nitrate (As N)	01	1.0	mg. L		
SM2540C MOD: TOTAL DISSOLVE	n soi ins	•			Analyst: MMS
· · ·	2950	20.0	mg/L	1 .	11/9/2009 1:17:00 PM
Total Dissolved Solids	2000		· · · · · · · · · · · · · · · · · · ·		4.4
NODO O. TVN					Analyst: KS
SM 4500 NORG C: TKN	ND	5.0	mg/L	1	11/6/2009 1:56:00 PM
Nitrogen, Kjeldahl, Total	ΝĊ	<b>U.</b> U	g. =	•	

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 5 of 7

Date: 28-Aug-09

CLIENT:

Estes Sampling Service

Lab Order:

0908307

Project:

Southern Skies

Lab ID:

0908307-05

Client Sample ID: MW-7

Collection Date: 8/18/2009 2:27:00 PM

Date Received: 8/19/2009

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS			<u> </u>	<del></del>	,	Analyst: TAF
Chloride	180	2.0		mg/L	20	8/19/2009 4:06:43 PM
Nitrogen, Nitrate (As N)	58	2.0		mg/L	20	8/19/2009 4:06:43 PM
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS					Analyst: MMS
Total Dissolved Solids	2930	20.0		mg/L	1	8/21/2009
SM 4500 NORG C: TKN						Analyst: LJB
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	8/20/2009

_		
One	lifi	249

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 5 of 7

Date: 09-Mar-09

CLIENT:

Estes Sampling Service

Lab Order:

0902213

Project:

Southern Skies Dairy

Lab ID:

0902213-05

Client Sample ID: MW-7

Collection Date: 2/19/2009 1:09:00 PM

Date Received: 2/20/2009

Matrix: AQUEOUS

200 101	Result	PQL	Oual	Units	DF	Date Analyzed
Analyses	Result 1 Q	1 4-				Analyst: RAGS
EPA METHOD 300.0: ANIONS	170	1.0		mg/L	10	2/20/2009 7:01:52 PM
Chloride Nitrogen, Nitrate (As N)	54	1.0	·	mg/L	10	2/20/2009 7:01:52 PM
	_					Analyst: JMP
SM 2540 C: TOTAL DISSOLVED SOLID Total Dissolved Solids	S 2600	100		mg/L	1	2/24/2009
						Analyst: TAF
SM 4500 NORG C: TKN Nitrogen, Kjeldahi, Total	ND	; 5.0		mg/L	1	2/24/2009

Quali	fiers:
-------	--------

- Value exceeds Maximum Contaminant Level
- E Estimated value.
- Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 5 of 7

Date: 29-May-09

CLIENT:

Estes Sampling Service

Lab Order:

0905426

Project:

Southern Skies Dairy

Lab ID:

0905426-04

Client Sample ID: MW-7

Collection Date: 5/21/2009 12:55:00 PM

Date Received: 5/22/2009

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS		•			Analyst: TAF
Chloride	180	1.0	mg/L	10	5/22/2009 3:22:56 PM
Nitrogen, Nitrate (As N)	60	1.0	mg/L	10 -	5/22/2009 3:22:56 PM
SM2540C MOD: TOTAL DISSOLVE	ED SOLIDS	•			At
Total Dissolved Solids	2800	20	mg/L	1	Analyst: <b>KMS</b> 5/26/2009
SM 4500 NORG C: TKN					Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	5.0	mg/L		5/28/2009

Qual	ifiers:
------	---------

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- -MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 16-Nov-09

CLIENT:

Estes Sampling Service

Lab Order:

0911071

Project:

Southern Skies Dairy

Lab ID:

0911071-06

Client Sample ID: MW-8

Collection Date: 11/3/2009 10:00:00 AM

Date Received: 11/4/2009

Matrix: AQUEOUS

A. A. Lance	Result	PQL (	Qual Units	DF	Date Analyzed
Analyses					Analyst: TAF
EPA METHOD 300.0: ANIONS	86	1.0	mg/L	10	11/5/2009 2:26:04 AM
Chloride Nitrogen, Nitrate (As N)	20	1.0	mg/L	10	11/5/2009 2:26:04 AM
	IED SOLIDS	_	•		Analyst: MMS
SM2540C MOD: TOTAL DISSOLV Total Dissolved Solids	2390	200	mg/L	1	11/9/2009 1:17:00 PM
			•		Analyst: KS
SM 4500 NORG C: TKN Nitrogen, Kjeldahl, Total	ND	5.0	mg/L	1	11/6/2009 1:56:00 PM

_	_			
Λ	~1	157	-	

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 6 of 7

Date: 28-Aug-09

CLIENT:

Estes Sampling Service

Lab Order:

0908307

Project:

0908307-06

Southern Skies

Client Sample ID: MW-8

Collection Date: 8/18/2009 12:04:00 PM

Date Received: 8/19/2009

Lab ID: 0908307-06		Mathy: Adopoop						
	Result	PQL	Qual Units	DF	Date Analyzed			
					Analyst: TAF			
300.0: ANIONS	g s	2.0	mg/L	20	8/19/2009 4:41:31 PM			
•			<u> </u>	20	8/19/2009 4:41:31 PM			
ate (As N)	19	2.0			•			
				· 1	. Analyst: MMS			
	SOLIDS	200	mo/i.	1	8/21/2009			
ed Solids	2210	200	,,,g, <u>~</u>					
					Analyst: LJB			
	A.ITO	= 0	ma/l	1	8/20/2009			
dahi, Total	ND	5.0	mg/L	•				
	D 300.0: ANIONS  ate (As N)  D: TOTAL DISSOLVED  d Solids  RG C: TKN	Result  2 300.0: ANIONS  83 ate (As N)  19 D: TOTAL DISSOLVED SOLIDS ad Solids  2270  RG C: TKN	Result         PQL           0 300.0: ANIONS         83         2.0           ate (As N)         19         2.0           ID: TOTAL DISSOLVED SOLIDS and Solids         2270         200           RG C: TKN         5.0         5.0	Result   PQL   Qual   Units	Result   PQL Qual Units   DF			

Oualifiers:	
Chamineter	

Value exceeds Maximum Contaminant Level

Estimated value E

Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

Spike recovery outside accepted recovery limits S

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

MCL Maximum Contaminant Level

RL Reporting Limit

Date: 29-May-09

CLIENT:

**Estes Sampling Service** 

Lab Order:

0905426

Project:

Southern Skies Dairy

Lab ID:

0905426-05

Client Sample ID: MW-8

Collection Date: 5/21/2009 9:55:00 AM

Date Received: 5/22/2009

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: TAF.
Chloride	87	1.0	mg/L	10	5/22/2009 3:40:21 PM
Nitrogen, Nitrate (As N)	20	1.0	mg/L	10	5/22/2009 3:40:21 PM
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS				Analyst: KMS
Total Dissolved Solids	2500	200	mg/L	1	5/26/2009
SM 4500 NORG C: TKN		•			Analyst: KMS
Nitrogen, Kjeldahl, Total	NĐ	5.0	mg/L	1	5/28/2009

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 09-Mar-09

CLIENT:

Estes Sampling Service

Lab Order:

0902213

Southern Skies Dairy

Project: Lab ID:

0902213-06

Client Sample ID: MW-8

Collection Date: 2/19/2009 10:00:00 AM

Date Received: 2/20/2009

Matrix: AQUEOUS

Result	PQL (	Qual Units	DF	Date Analyzed
				Analyst: RAGS
83	1.0	mg/L	10	2/20/2009 8:11:31 PM
19	0.10	mg/L	1	2/20/2009 7:54:06 PM
· }	•		•	Analyst: JMP
2400	100	mg/L	1	2/24/2009
				Analyst: TAF
ND	2.0	mg/L	1	2/24/2009
	83 19 2400	83 1.0 19 0.10 3 2400 100	83 1.0 mg/L 19 0.10 mg/L 3 2400 100 mg/L	83 1.0 mg/L 10 19 0.10 mg/L 1

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 6 of 7

Date: 19-Jun-02

CLIENT:

Southern Skies Dairy

Lab Order:

0206072

Project:

So. Skies DMR Sampling

Lab ID:

0206072-04

Client Sample ID: MW-5

Collection Date: 6/10/02 1:25:00 PM

Matrix: AQUEOUS

Analyses	Result	Limit Q	ual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS Chloride					Analyst: HVA
	180	1.0	mg/L	10	6/13/02
Nitrate (As N)+Nitrite (As N)	110	2.0	mg/L	20	6/14/02
EPA METHOD 160.1: TDS  Total Dissolved Solids	2400	1.0	mg/L	1	Analyst: <b>MAP</b> 6/18/02
EPA METHOD 351.3: TKN Nitrogen, Kjeldahl, Total	ND	1.00	mg/L	1	Analyst: <b>MAP</b> 6/18/02

DP-164 Highest NO3-N Reported Source Monitored: LAA

R - RPD outside accepted recovery limits

Date: 19-Jun-02

CLIENT:

Southern Skies Dairy

Lab Order:

0206072

Project:

So. Skies DMR Sampling

Lab ID:

0206072-02

Client Sample ID: MW-1

Collection Date: 6/10/02 12:23:00 PM

Matrix: AQUEOUS

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS Chloride Nitrate (As N)+Nitrite (As N)	140 9.4	1.0 1.0	mg/L mg/L	10 10	Analyst: <b>HVA</b> 6/13/02 6/14/02
EPA METHOD 160.1: TDS Total Dissolved Solids EPA METHOD 351.3: TKN	1800	1.0	mg/L	1	Analyst: <b>MAP</b> 6/18/02
Nitrogen, Kjeldahl, Total	ND	1.00	mg/L	1	Analyst: <b>MAP</b> 6/18/02

D

[DP-164] Upgradient MW

B - Analyte detected in the associated Method Blank

<sup>\* -</sup> Value exceeds Maximum Contaminant Level

R - RPD outside accepted recovery limits

Date: 16-Nov-09

CLIENT:

Estes Sampling Service

Lab Order:

0911071

Project:

Southern Skies Dairy

Lab ID:

0911071-07

Client Sample ID: Lagoon

Collection Date: 11/3/2009 12:42:00 PM

Date Received: 11/4/2009

Matrix: AQUEOUS

Analyses	Result	PQL (	Quai Units.	DF	Date Analyzed
				<u> </u>	Analyst: TAF
EPA METHOD 300.0: ANIONS	680	5.0	mg/L	50	11/5/2009 3:00:53 AM
Chloride			mg/L	10	11/5/2009 2:43:28 AM
Nitrogen, Nitrate (As N)	ND	1.0	mg/L	•••	1 1,0/2000 2. 10120 1 111
SM2540C MOD: TOTAL DISSOLVE	n sai ins		•		Analyst: MMS
	3340	200	mg/L	1	11/9/2009 1:17:00 PM
Total Dissolved Solids	3340	200	III B. E	•	
ou tree NODO O. TVN					Analyst: KS
SM 4500 NORG C: TKN		20	mg/L	1	11/6/2009 1:66:00 PM
Nitrogen, Kjeldahl, Total	240	20	HØ/L	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

DP-164 Recent TKN Wastewater Analysis

- Value exceeds Maximum Contaminant Level
- Estimated value
- Analyte detected below quantitation limits
- Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 7 of 7

Date: 28-Aug-09

CLIENT:

Estes Sampling Service

Lab Order:

0908307

Project:

Southern Skies

Lab ID:

0908307-07

Client Sample ID: Lagoon

Collection Date: 8/18/2009 2:37:00 PM

Date Received: 8/19/2009

Lab ab.					
Analyses	Result	PQL	Qual Units	DF	Date Analyzed
					Analyst: TAF
EPA METHOD 300.0: ANIONS	740	5.0	mg/L	50	8/19/2009 6:25:57 PM
Chloride	/40	•	-	===	8/19/2009 5:33:43 PM
Nitrogen, Nitrate (As N)	ND	1.0	mg/L	10	8/19/2009 5:35:43 FW
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: MMS
		200	mg/L	1	8/21/2009
Total Dissolved Solids	3460	200	mgrL	•	<b>014</b> 11 <b>4</b> 11
SM 4500 NORG C: TKN	•				Analyst: LJB
	240	20	mg/L	1	8/20/2009
Nitrogen, Kjeldahl, Total	240	20	ııı\$ır.	•	

	rs:

Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Date: 09-Mar-09

CLIENT:

Estes Sampling Service

Lab Order:

0902213

Project:

Southern Skies Dairy

Lab ID:

0902213-07

Client Sample ID: Lagoon

Collection Date: 2/19/2009 12:00:00 PM

Date Received: 2/20/2009

Analyses	Result	PQL	Qual Units	DF	Date Analyzed			
EPA METHOD 300.0: ANIONS					Analyst: RAGS			
Chloride	· 360	1.0	mg/L	10 ·	2/20/2009 8:28:56 PM			
Nitrogen, Nitrate (As N)	ND	1.0	mg/L	. 10	2/20/2009 8:28:56 PM			
SM 2540 C: TOTAL DISSOLVED S	SOLIDS				Analyst: JMP			
Total Dissolved Solids	3100	100	mg/L	1	2/24/2009			
SM 4500 NORG C: TKN					Analyst: TAF			
Nitrogen, Kjeldahi, Total	440	10	mg/L	1	2/24/2009			

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Date: 29-May-09

CLIENT:

**Estes Sampling Service** 

Lab Order:

0905426

Project:

Southern Skies Dairy

Lab ID:

0905426-06

Client Sample ID: Lagoon

Collection Date: 5/21/2009 1:08:00 PM

Date Received: 5/22/2009

Matrix: AQUEOUS

Result	PQL	Qual I	Units	DF	Date Analyzed
			<del></del>		Analyst: TAF
500	2.0		nall	20	5/22/2009 3:57:45 PM
			•		5/22/2009 3:57:45 PM
ND	2.0	r	ng/L	. 20	<b>0.22</b> , 400
				4	Analyst: KMS
15	400		mall	1	5/26/2009
4000	400	•	HyrL	•	
					Analyst: KMS
•				4	5/28/2009
470	20	1	mg/L	1	AIRAITAAA
	590 ND 98 4000	ND 2.0 9\$ 4000 400	ND 2.0 r	ND 2.0 mg/L DS 4000 400 mg/L	ND 2.0 mg/L 20  SS 4000 400 mg/L 1

Oug	lif	iers	Ľ

- Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

Page 6 of 6



5601 19th Street Lubbock, Texas 79407 P.O. Box 16652 Lubbock, Texas 79490 Tel: (806) 796-2805 Fax: (806) 796-2825

ANALYTICAL RESULTS FOR COWBELL TESTING ATTN: AMY MUNSON P. O. BOX 310 HAGERMAN, NM 88232

PHONE: (505) 752-0939

RECEIVED JUL 0 2 2004

Receiving Date: 06/11/04

Reporting Date: 06/21/04 Project Number: DP-164

Project Name: SOUTHERN SKIES DAIRY Project Location: ROSWELL, NM

Sampling Date: 06/09/04

Sample Type: WELL H<sub>2</sub>O, WASTE H<sub>2</sub>O Sample Condition: COOL & INTACT

Sample Received By: MR Analyzed By: RG, NM

		TDS	Chlorides	TKN	NO <sub>3</sub> -NO <sub>2</sub> -N
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Date Analysis Batch	Started:	06/14/04	06/15/04	06/14/04	06/11/04
Time Analysis Batch	n Started:	15:30	11:00	10:15	10:10
Al7650-1	MW 1	1985	150	< 0.2 *	21.1
Al7650-2	MW 4	2735	130	< 0.2 *	27.7
Al7650-3	MW 5	1535	110	0.3	34.8
Al7650-4	MW 6	2905	370	< 0.2 *	29.7
Al7650-5	LAGOON	5320	680	730	0.12
Date Analysis Batch	Finished:	06/15/04	06/15/04	06/14/04	06/11/04
Time Analysis Batch	14:25	13:00	17:15	13:00	
Blank		< 1	< 1	< 0.2	< 0.01
Quality Control		994	52	4.78	0.3172

METHODS: EPA 600/4-79-020,	160.1	4500B-Cl	351.4	353.3

1000

99

N/A

50

104

106

3

5.00

96

96

1

0.3000

106

92

4

Mario Rodriguez, Director.

True Value QC

% Instrument Accuracy

% Extraction Accuracy

Relative Percent Difference

06-21-04

Lab Pequest# K7					LABORES		007				24
Lab Sample# 98-124-K1	9-K23			City of Rosy	LABORAT			Fage	1	_ 0	
Date Sampled 5-3-98				City of Roswell Water & Waste Water Laboratory 2306 East College Street Sample							etina Chemi Smules
Time Sampled 1300 Date Received 5-4-98				PO Drawer 1	mple Source	ample Taken By: J & J Testing - Cherri Snyo le Source DeGroot Dairy DP - 164					
Time Received 0905					Roswell, NM	1 88201, 882	202-1838				
Date Reported 5-12-98	05 Phone (505) 624-6752 Bill 2-98 FAX: (505) 624-6940					Bill To:	DeGroc	t Dairy Hobson	74		
Time of Compiler Cook - V	of Sample; Grab_X_,Flow Comp,Time Comp								I, NM 882		
Type of Sample; Grab_x	Flow Com Flow we	p,Tir	пе Сотр те Сотр								
	1 201 110	agricu i iri	ie Comp					Copies To:	Mr. Cha	arlie Sparr	non Utilities Director
Sample Location:	Monitoring V	Vells & Lag	joon						J&JT	esting 1661 East	Bracher
									Roswell	, NM 882	01
	Sample	f	MW #1	MW #2	MW #3	MW #4	-				
Analyte	Descriptio	n>	K19	K20	K21	MVV #4 K22	Lagoon K23	Method Detection	Unit	Total	
	L	_					1.35		Price	Total Price	Method Reference
		Date Analyzed							<u> </u>		T (C) Clarics
Calcium (Ca) mg/L		Allalyzeu				ĺ					EDA 245 2
Total Hardness (CaCO3) r	na/L										EPA 315.2
Magnesium (Mg) mg/L											EPA 130,2
							·				SM 3500 E
Chloride (CI) mg/L		5-7-98	113	199	781	131	180	0.8mg/L	\$10.00	\$50.00	EPA 325.3
Sulfate (SO4) mg/L						-					ASTM D 151-68B
Bicarbonate (HCO3) mg/L											SM 2320
Carbonate (CO3) mg/L											SM 2320
Alkalinity as (CaCO3) mg/L								·			SM 2320
Sodium (Na) mg/L											EPA 273.1
Potassium (K) mg/L											EPA 258.1
oH (pH units)											SM 4500
Conductivity 25 Degrees C	mmhos	<u></u> }-									SM 2510
Dissolved Solids Evap. mg/	L e	5-5-98	2310	3390	3180	2780	1280	10mg/L	\$10.00	\$50.00	SM 2450 C
Altrates (NO3-N)&(NO2-N)	mg/L 5	5-8-98	24.0	57.7	0.48	31.0	0.27	0.03mg/L	\$20.00		EPA 353.3
litrate (NO3-N) mg/L											EPA 353.3
litrite (NO2-N) mg/L											EPA 353.3
KN-N mg/L		5-8-98	1.1	<0.3	9.0	1.6	86.0	0.3mg/L	\$20.00	\$100.00	EPA 351.3
ummonia (NH3-N) mg/L								· · · · · · · · · · · · · · · · · · ·			EPA 350,2
Phosphate Ortho (PO4-P)	mg/L										ASTM D 515-72B
Phosphate Total (PO4-P) r	ng/L										ASTM D 151-72B
on (Fe) mg/L											EPA 236.1
							This Page To	otal\$	<del>&gt; [</del>	\$300.00	
						The _	1	Page Total	{	\$300.00	

The feet require some deal and the second		
The test results reported relate only to the items tested. Reports shall not be reproduced except in full without the approval of the to Laboratory.	esting ASTM -	References American Society for Testing Materials
Arry deviations, additions to, or exclusions from the test specifications and other information relevant to a specific test will be in the note section of the report.	any EPA -	Methods for Chemical Analysis for Water and Waste "Environmental Protection Agency 1983"
Non-standard test methods or procedures used will be explained in the not A description of sampling procedures will be found in the note section of the when relevant.	te section of the report. EPA-B - e report	Microbiological Methods for Monitoring the Environment "Environmental Protection Agency 1978"
When necessary, an explanation of measurement uncertainty will be in the section of the report.	note SM -	Standard Methods 18th Edition 1992
City Chemist Notes: -		
<i>k</i> 0 "		

Time Sampled 0900 PO Drawer 1838 Sample Source Date Received 5-6-97 Roswell, NM 88201, 88202-1838 Phone (505) 624-6752 Bill To: Date Reported 5-19-97 FAX: (505) 624-2727  Type of Sample: Grab X Flow Comp. Time Comp.									ple1				
Analyte	Analyte Semple Description		MW 1 K50	MW 2 K51	MW 3 K52	MW 4 K53	Lagoon K54	Method Detection Limit	Unit Price	Total Price	Method Reference		
Calcium (Ca) mg/L		Dete Analyzed			-						EPA 315.2		
Total Hardness (CaCO3)	ng/L										EPA 130.2		
Magnesium (Mg) mg/L									ļ		SM 3500 E		
Chloride (CI) mg/L		5-12-97	124	206	207	131	284	0.8mg/L	\$10.00	\$50.00	EPA 325.3		
Sulfate (SO4) mg/L									<u> </u>		ASTM D 151-68B		
Bicarbonate (HCO3) mg/L											SM 2320		
Carbonate (CO3) mg/L											SM 2320		
Alkalinity as (CaCO3) mg/l											SM 2320		
Sodium (Na) mg/L									ļ		EPA 273.1		
Potassium (K) mg/L			(K) mg/L		·								EPA 258.1
pH (pH units)	oH (pH units)										SM 4500		
Conductivity 25 Degrees C	mmhos				^				ļ		SM 2510		
Dissolved Solids Evap. mg	И	5-8-97	2520	3560	3450	2820	2020	10mg/L	\$10.00	\$50.00	SM 2450 C		
Nitrates (NO3-N)&(NO2-N	) mg/L	5-15-97	32.8	58.7	235	32.1	0.06	0.03mg/L	\$20.00	\$100.00	EPA 353.3		
Nitrate (NO3-N) mg/L									<u> </u>		EPA 353.3		
Nitrite (NO2-N) mg/L	<del></del>								ļ		EPA 353.3		
TKN-N mg/L		5-14-97	1.2	<0.3	0.3	<0.3	128	0.3mg/L	\$20.00	\$100.00	EPA 351.3		
Ammonia (NH3-N) mg/L								ļ	ļ	·	EPA 350.2		
Phosphate Ortho (PO4-P)	mg/L								ļ		ASTM D 515-72B		
Phosphate Total (PO4-P)	mg/L.						<u> </u>	<u> </u>	<b> </b>	<u> </u>	ASTM D 151-72B		
kon (Fe) mg/L	·	ļ									EPA 236.1		
			<u> </u>				YE BASE	al of	<u> </u>	\$300.00			
						The	This Page	Page Total		\$300.00	<b>4</b>		
The test results reported relate only to the items tested.  Reports shall not be reproduced except in full without the approval of the testing Laboratory.					ASTM -		References American Society for Testing Materials						
Any deviations, additions other information relevant	io, or exclusi lo a specific	ons from the test will be	ne test speci in the note	aceuons end section of th	18 19		EPA-	Methods for Chemical Analysis for Weter and Wasta "Environmental Protection Agency 1983"					
	ls or procedu procedures v	res used v will be four	viil be explait nd in the note	ned in the no section of t	ote section of he report	the report.	EPA-B -		Microbiological Methods for Monitoring the Environment "Environmental Protection Agency 1978"				
A description of sampling procedures will be found in the note section of the report when relevant.  When necessary, an explanation of measurement uncertainty will be in the note section of the report.						SM -	Standard Methods 18th Edition 1992						